LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.084	886	893	901	rBV	68527	118238	1.80%	0.299%
2	10.904	1365	1373	1376	rBV	101740	191925	2.92%	0.486%
3	10.957	1376	1382	1392	rVV	737693	1327012	20.22%	3.357%
4	12.549	1645	1653	1667	rBV	557221	935461	14.25%	2.367%
5	12.767	1679	1690	1698	rBV	282818	479520	7.31%	1.213%
6	13.548	1816	1823	1833	rBB	234180	356387	5.43%	0.902%
7	13.748	1850	1857	1867	rVB	78303	143990	2.19%	0.364%
8	14.036	1898	1906	1911	rBV	140404	255243	3.89%	0.646%
9	14.089	1911	1915	1924	rVV2	94858	162287	2.47%	0.411%
10	14.271	1936	1946	1950	rBV	59989	99326	1.51%	0.251%
11	14.441	1964	1975	1984	rVB2	73699	130747	1.99%	0.331%
12	14.682	2011	2016	2019	rBV	98112	149027	2.27%	0.377%
13	14.718	2019	2022	2027	rVV2	176467	271084	4.13%	0.686%
14	14.788	2027	2034	2040	rVV	1337306	2078152	31.67%	5.258%
15	14.847	2040	2044	2050	rVV	47595	72924	1.11%	0.185%
16	14.917	2050	2056	2065	rVV2	18019	45199	0.69%	0.114%
17	15.023	2065	2074	2079	rVV	47178	84578	1.29%	0.214%
18	15.117	2083	2090	2097	rVV	878943	1380024	21.03%	3.492%
19	15.182	2097	2101	2110	rVB	29822	47477	0.72%	0.120%
20	15.381	2130	2135	2145	rVB2	27444	43344	0.66%	0.110%
21	15.769	2194	2201	2209	rVV	1269444	1953624	29.77%	4.943%
22	15.857	2209	2216	2218	rVV	51362	85146	1.30%	0.215%
23	15.887	2218	2221	2224	rVV2	85977	133385	2.03%	0.337%
24	15.922	2224	2227	2232	rVV2	144015	227135	3.46%	0.575%
25	15.975	2232	2236	2238	rVV3	33435	53629	0.82%	0.136%
26	16.010	2238	2242	2245	rVV	78590	124008	1.89%	0.314%
27	16.051	2245	2249	2257	rVV	168226	258841	3.94%	0.655%
28	16.198	2264	2274	2282	rVV	181102	402139	6.13%	1.017%
29	16.292	2287	2290	2295	rVV	33156	47387	0.72%	0.120%
30	16.557	2330	2335	2340	rVB	84662	124245	1.89%	0.314%
31	16.762	2358	2370	2375	rBV2	143151	315061	4.80%	0.797%
32	16.809	2375	2378	2384	rVB3	47269	68959	1.05%	0.174%
33	16.909	2390	2395	2400	rVB2	57072	101543	1.55%	0.257%
34	16.991	2400	2409	2412	rBV2	51853	126183	1.92%	0.319%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Title : SVOA CALIBRATION

35	17.027	2412	2415	2419	rVB2	47479	59214	0.90%	0.150%
36	17.115	2426	2430	2436	rVB6	24396	48038	0.73%	0.122%
37	17.191	2436	2443	2453	rBV2	69730	194014	2.96%	0.491%
38	17.279	2453	2458	2469	rVB	303829	480805	7.33%	1.216%
39	17.467	2483	2490	2492	rBV	205118	329697	5.02%	0.834%
40	17.526	2492	2500	2505	rVV	3526620	6562790	100.00%	16.605%
41	17.602	2508	2513	2518	rVV	478729	720234	10.97%	1.822%
42	17.655	2518	2522	2526	rVV2	31266	54958	0.84%	0.139%
43	17.867	2546	2558	2566	rBV	248989	445589	6.79%	1.127%
44	17.978	2573	2577	2584	rBV2	79486	121324	1.85%	0.307%
45	18.043	2584	2588	2598	rVB4	33207	69073	1.05%	0.175%
46	18.184	2607	2612	2621	rVB	31484	67870	1.03%	0.172%
47	18.337	2633	2638	2642	rBV	309343	448720	6.84%	1.135%
48	18.384	2642	2646	2653	rVB	409970	617573	9.41%	1.563%
49	18.466	2653	2660	2665	rBV	132055	222048	3.38%	0.562%
50	18.537	2665	2672	2676	rBV2	580941	1038439	15.82%	2.627%
51	18.830	2717	2722	2727	rBV	272046	372285	5.67%	0.942%
52	19.071	2759	2763	2768	rVB3	53632	71715	1.09%	0.181%
53	19.124	2768	2772	2775	rBV	39346	46953	0.72%	0.119%
54	19.159	2775	2778	2782	rVB	36837	47733	0.73%	0.121%
55	19.242	2787	2792	2798	rBV2	83180	157862	2.41%	0.399%
56	19.312	2798	2804	2812	rVB3	57524	138958	2.12%	0.352%
57	19.389	2812	2817	2820	rBV2	26279	50430	0.77%	0.128%
58	19.524	2831	2840	2845	rVV	2634976	4132649	62.97%	10.456%
59	19.571	2845	2848	2851	rVV	42294	58687	0.89%	0.148%
60	19.606	2851	2854	2858	rVV	58012	81586	1.24%	0.206%
61	19.753	2873	2879	2888	rVB2	89653	175292	2.67%	0.444%
62	19.882	2896	2901	2907	rVB	1760376	2804625	42.74%	7.096%
63	19.941	2907	2911	2918	rVB	98765	153145	2.33%	0.387%
64	20.047	2923	2929	2935	rVB	121838	172488	2.63%	0.436%
65	20.188	2947	2953	2960	rBV2	102242	265943	4.05%	0.673%
66	20.246	2960	2963	2969	rBV	49006	62935	0.96%	0.159%
67	20.364	2969	2983	2988	rBV	339549	605953	9.23%	1.533%
68	20.464	2993	3000	3004	rBV	381431	569407	8.68%	1.441%
69	20.517	3004	3009	3013	rVV2	103647	202147	3.08%	0.511%
70	20.558	3013	3016	3019	rVV	70434	83848	1.28%	0.212%
71	20.599	3019	3023	3028	rVB	38648	58896	0.90%	0.149%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Title : SVOA CALIBRATION

72	20.658	3028	3033	3037	rBV	55904	82599	1.26%	0.209%
73	20.705	3037	3041	3049	rVB2	60587	107433	1.64%	0.272%
74	20.887	3067	3072	3076	rBV	45086	67738	1.03%	0.171%
75	20.951	3080	3083	3086	rVV3	30843	48156	0.73%	0.122%
76	20.987	3086	3089	3095	rVV4	31609	70962	1.08%	0.180%
77	21.081	3099	3105	3110	rVV2	37803	79130	1.21%	0.200%
78	21.134	3110	3114	3120	rVV4	28257	51947	0.79%	0.131%
79	21.310	3136	3144	3148	rBV	96857	162688	2.48%	0.412%
80	21.357	3148	3152	3156	rVV	98377	152761	2.33%	0.387%
81	21.410	3156	3161	3165	rVV2	85878	167333	2.55%	0.423%
82	21.451	3165	3168	3176	rVB2	28623	47874	0.73%	0.121%
83	21.592	3183	3192	3199	rBV	29761	77670	1.18%	0.197%
84	21.721	3202	3214	3221	rVV3	571958	1499046	22.84%	3.793%
85	21.786	3221	3225	3238	rVV	391448	699403	10.66%	1.770%
86	21.938	3246	3251	3260	rVV	96774	186031	2.83%	0.471%
87	22.079	3271	3275	3280	rVV	27050	52883	0.81%	0.134%
88	22.150	3280	3287	3294	rVV3	47090	98227	1.50%	0.249%
89	22.473	3333	3342	3347	rVV2	40676	114304	1.74%	0.289%
90	22.544	3349	3354	3363	rVV2	21737	49378	0.75%	0.125%
91	22.696	3374	3380	3384	rVV4	23133	49103	0.75%	0.124%
92	22.755	3385	3390	3393	rVV2	23102	45996	0.70%	0.116%
93	22.802	3393	3398	3406	rVB3	35539	73502	1.12%	0.186%
94	23.966	3586	3596	3603	rBV	113958	373292	5.69%	0.944%
95	24.224	3633	3640	3649	rVB2	19052	47744	0.73%	0.121%
96	24.700	3712	3721	3730	rBV2	46511	129488	1.97%	0.328%
97	24.847	3737	3746	3760	rVB	74617	211141	3.22%	0.534%
98	25.000	3762	3772	3782	rVV3	152359	472597	7.20%	1.196%
99	25.082	3782	3786	3798	rVB	21503	57717	0.88%	0.146%
100	28.736	4394	4408	4419	rBV4	12859	60726	0.93%	0.154%

Sum of corrected areas: 39524022

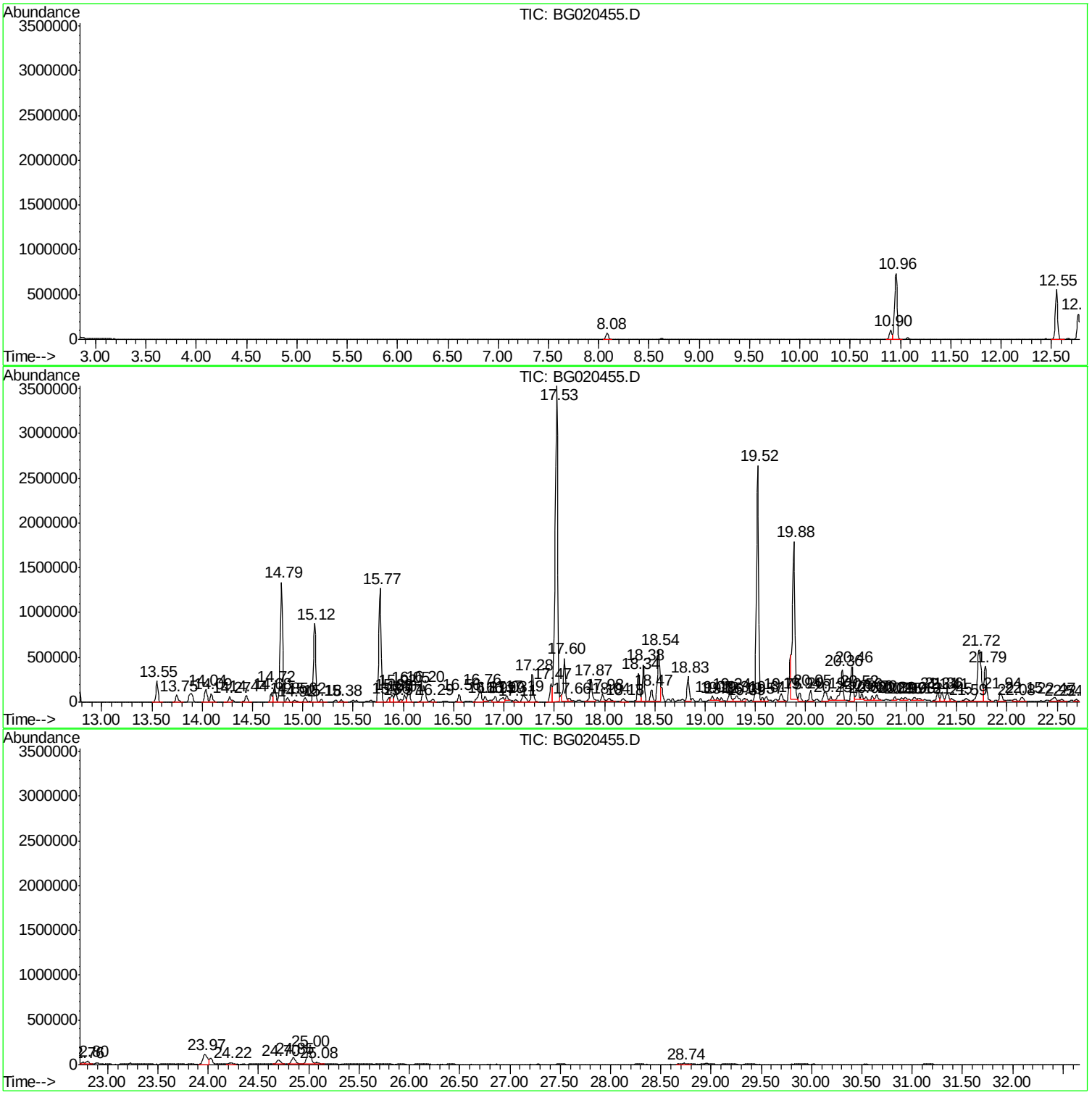
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

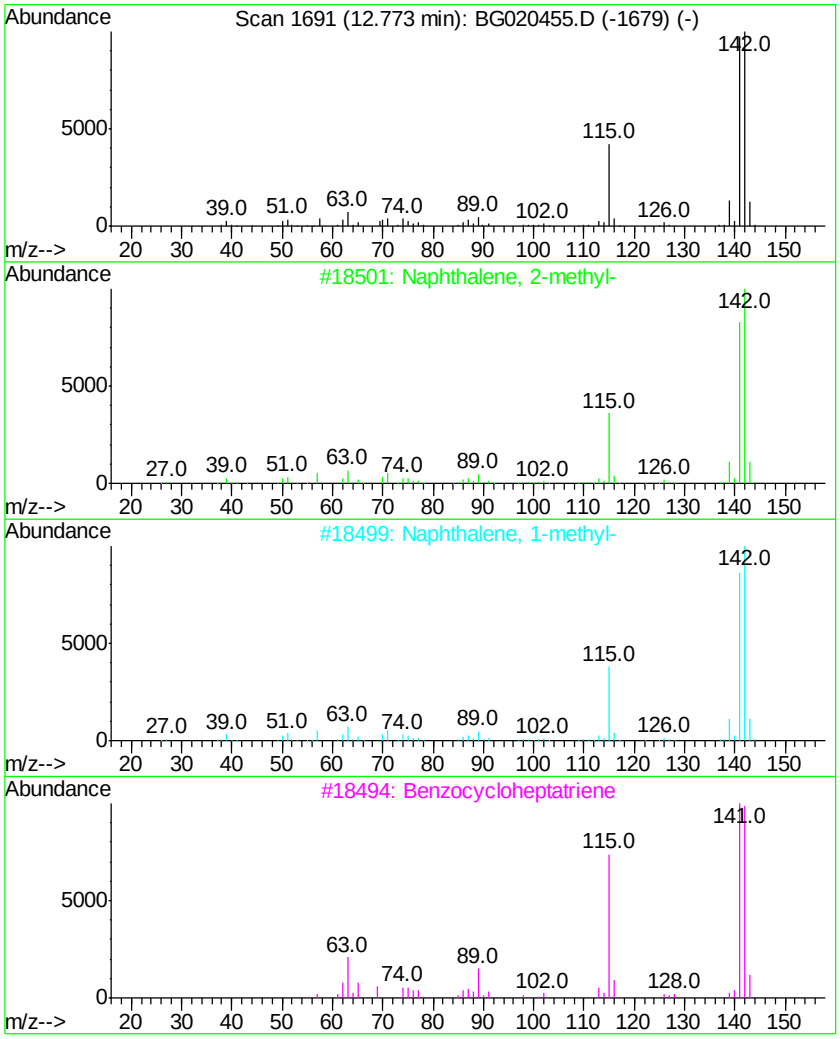
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

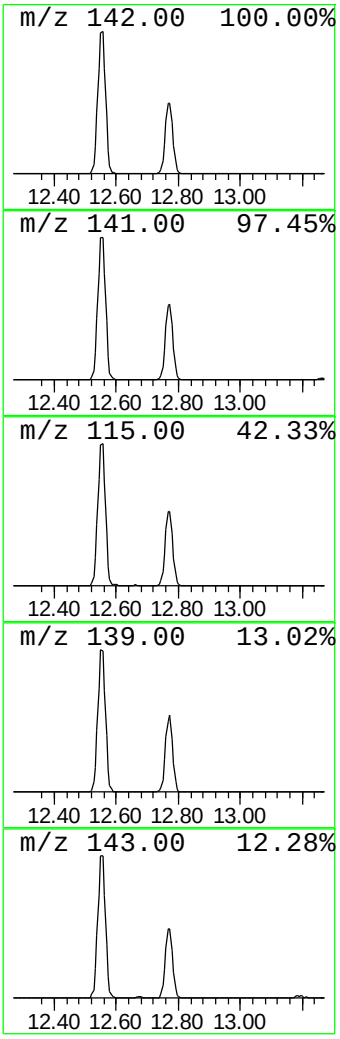
****

Peak Number 1 Naphthalene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.77	49.97 ng/ul	479520	Naphthalene-d8	10.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	Benzocycloheptatriene	142	C11H10	000264-09-5	94
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94





Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

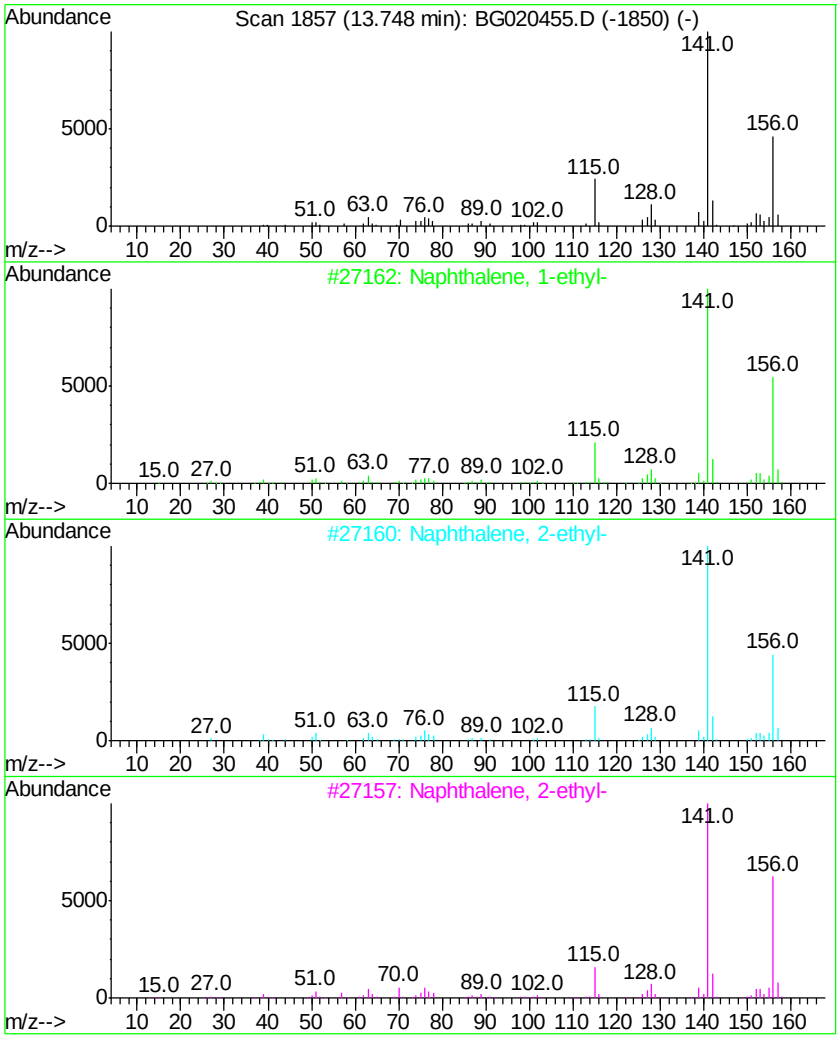
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

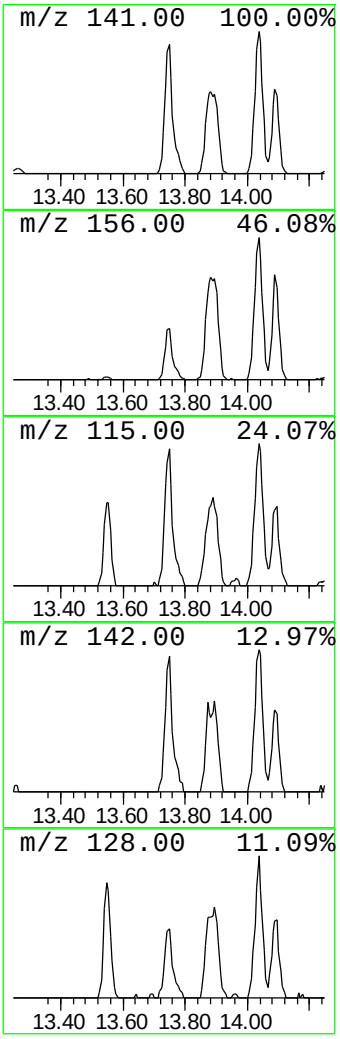
****

Peak Number 2 Naphthalene, 1-ethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	10.62 ng/ul	143990	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	97
2	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	95
3	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	95
4	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	95
5	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	94





Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

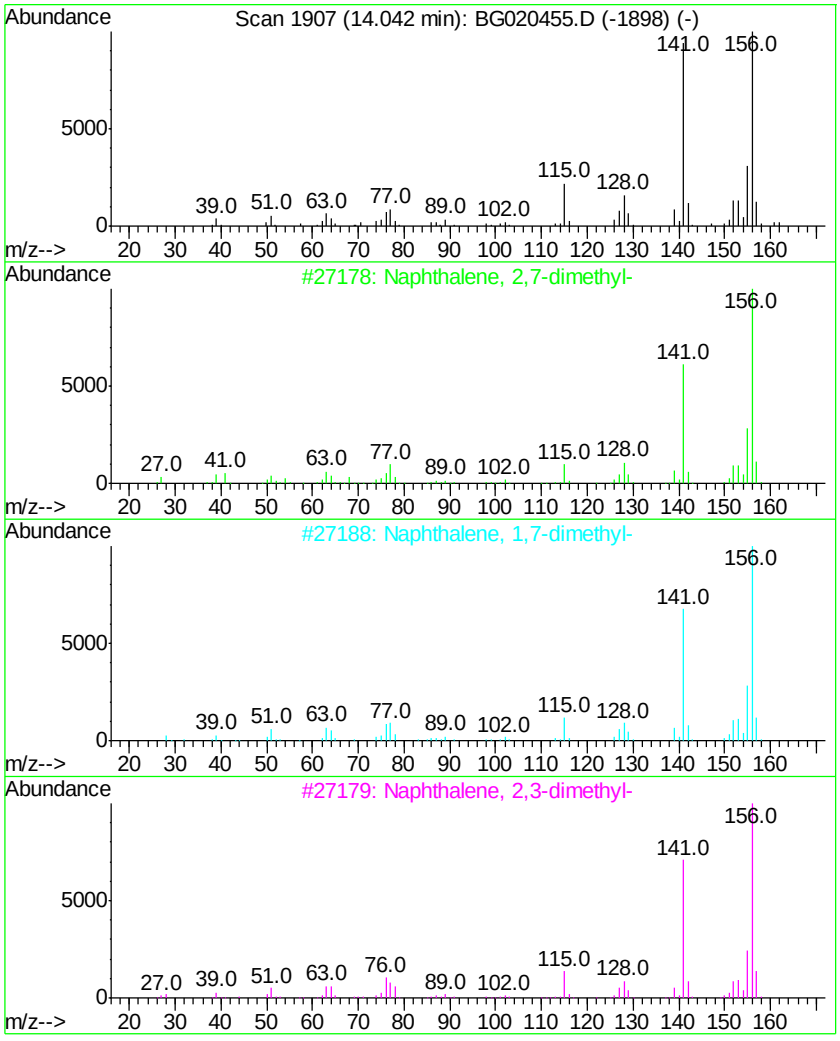
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

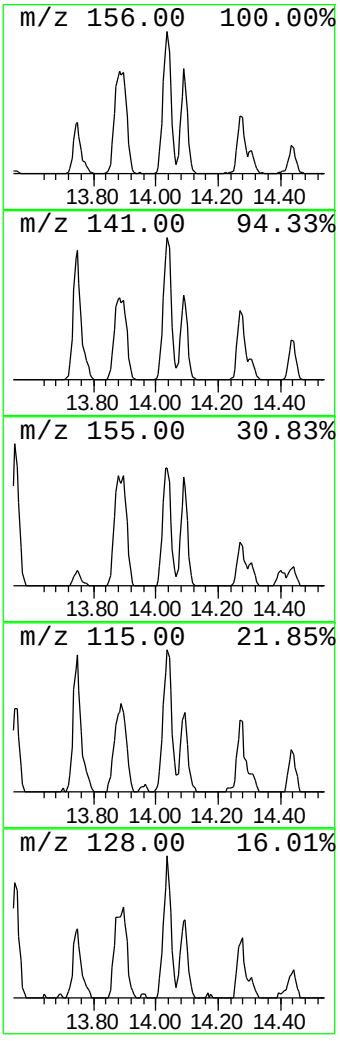
****

Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.04	18.83 ng/ul	255243	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

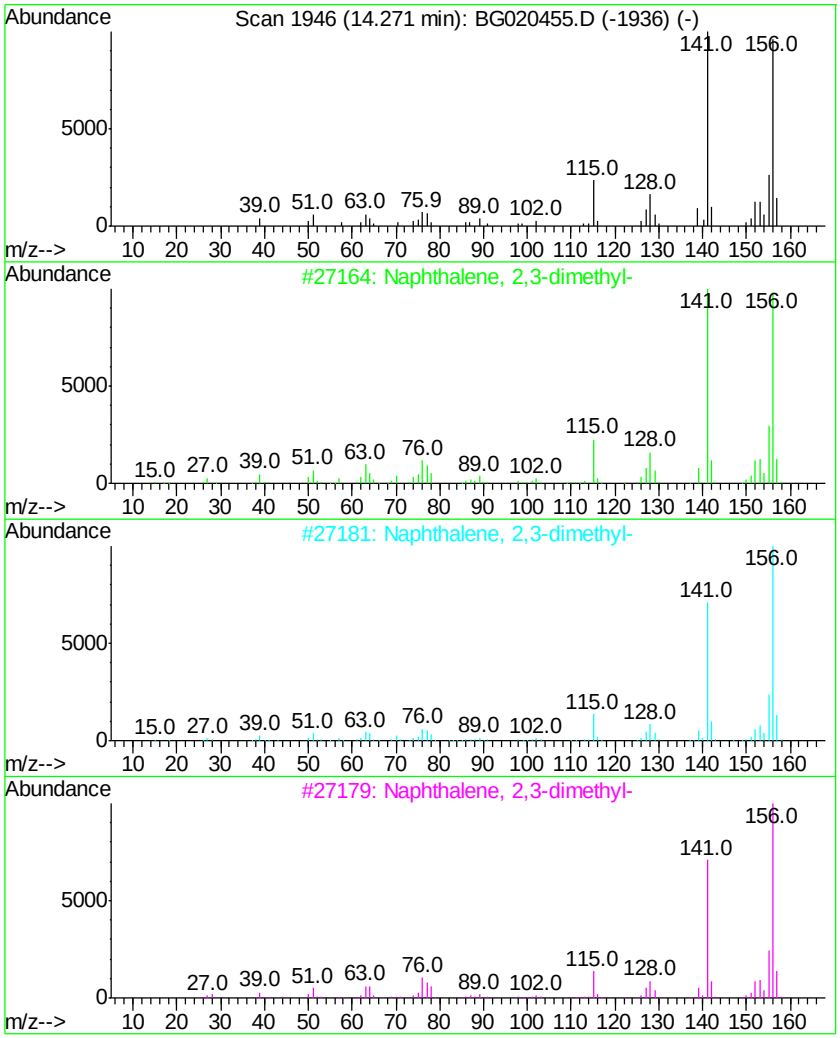
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

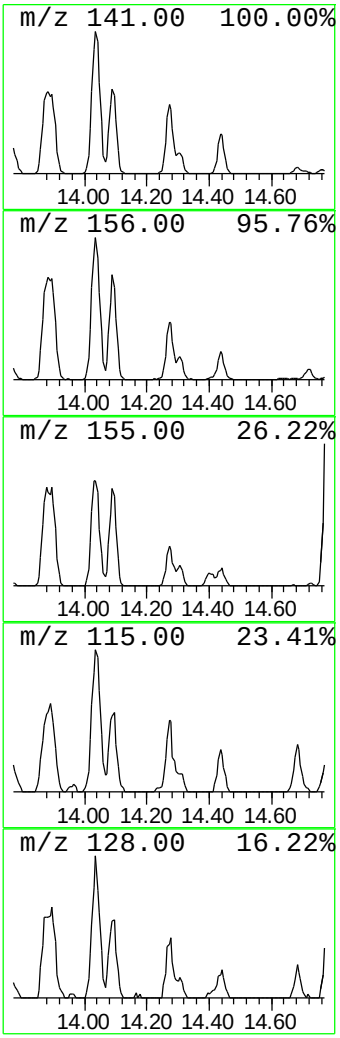
****

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.27	7.33 ng/ul	99326	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

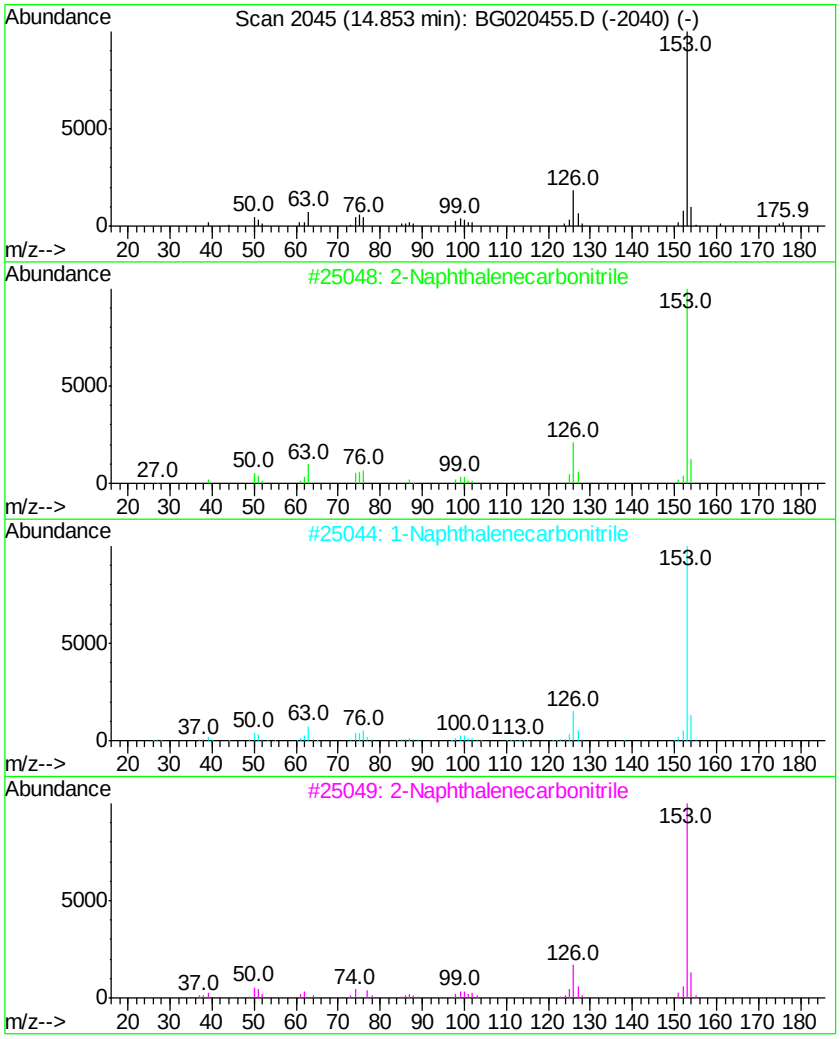
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

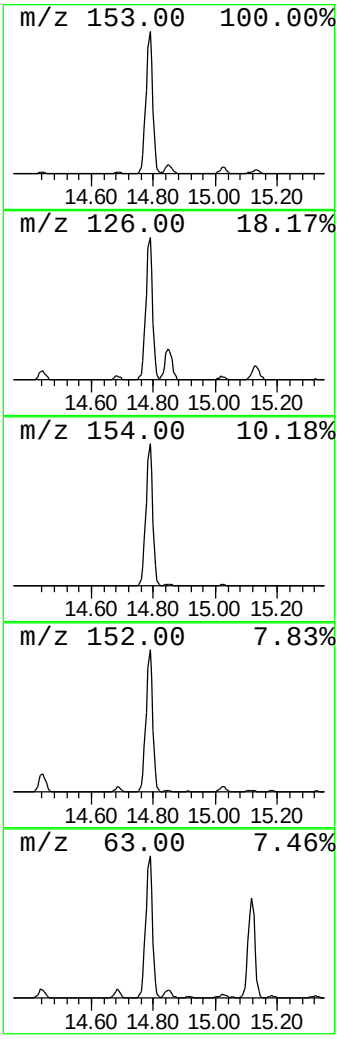
****

Peak Number 5 2-Naphthalenecarbonitrile Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.85	5.38 ng/ul	72924	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenecarbonitrile	153	C11H7N	000613-46-7	95
2	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	93
3	2-Naphthalenecarbonitrile	153	C11H7N	000613-46-7	91
4	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	91
5	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	91





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Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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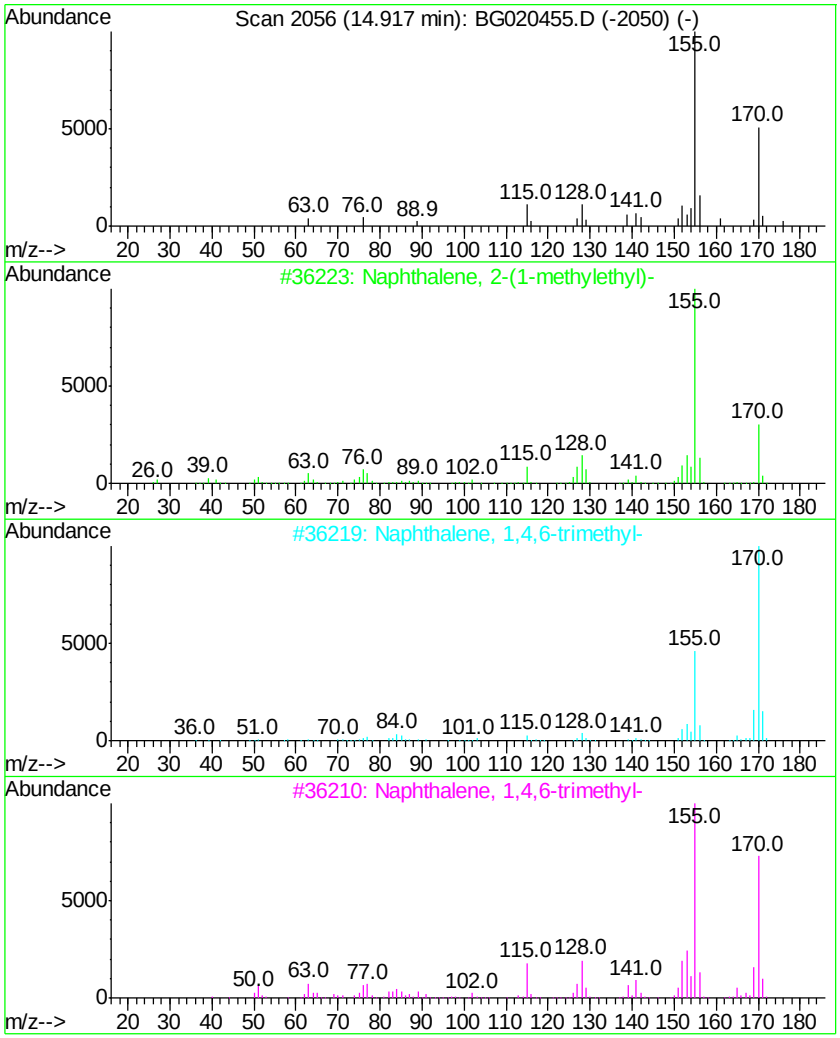
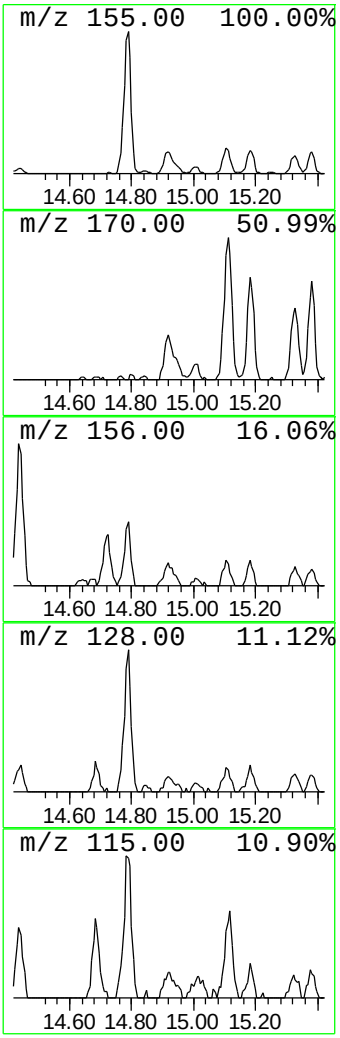
Peak Number 6 Naphthalene, 2-(1-methyleth... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.92	3.33 ng/ul	45199	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	91
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	90
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	86
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	83
5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	80





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Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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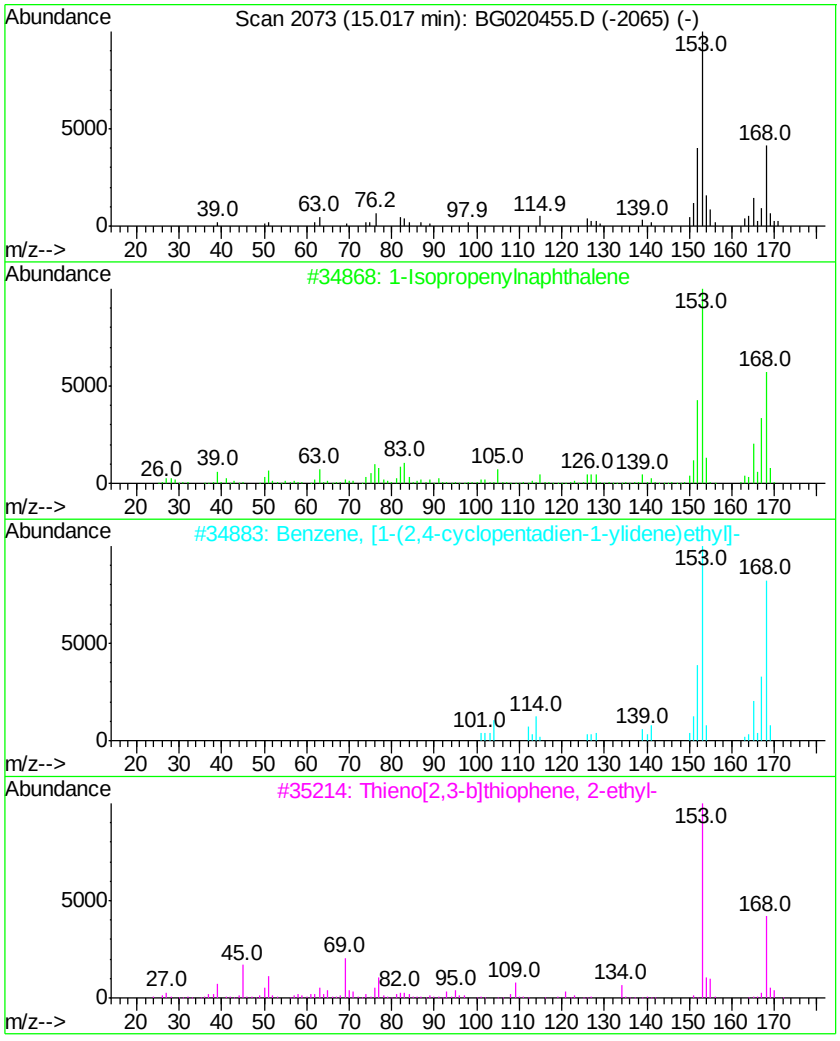
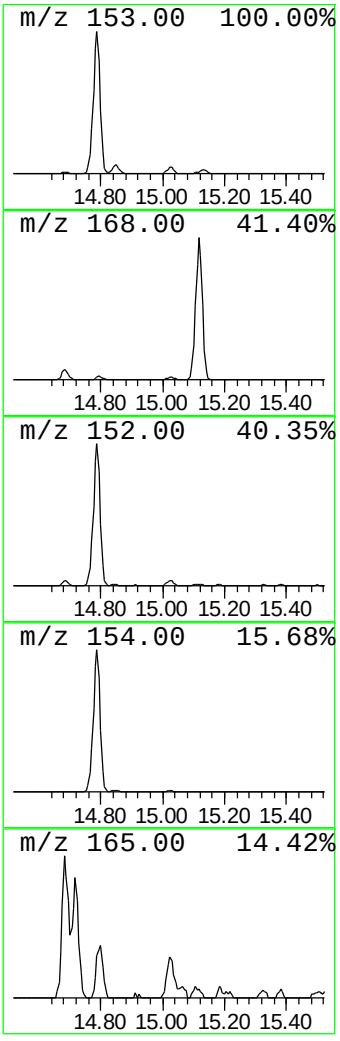
Peak Number 7 1-Isopropenylnaphthalene Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	6.24 ng/ul	84578	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	72
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	50
3	Thieno[2,3-b]thiophene, 2-ethyl-	168	C8H8S2	005912-01-6	47
4	Ethanone, 1-(2,4,6-trihydroxyphe...	168	C8H8O4	000480-66-0	46
5	Acetophenone, 3'-fluoro-4'-methoxy-	168	C9H9FO2	000455-91-4	43





Library Search Compound Report

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ClientSampleId : D9N63DL

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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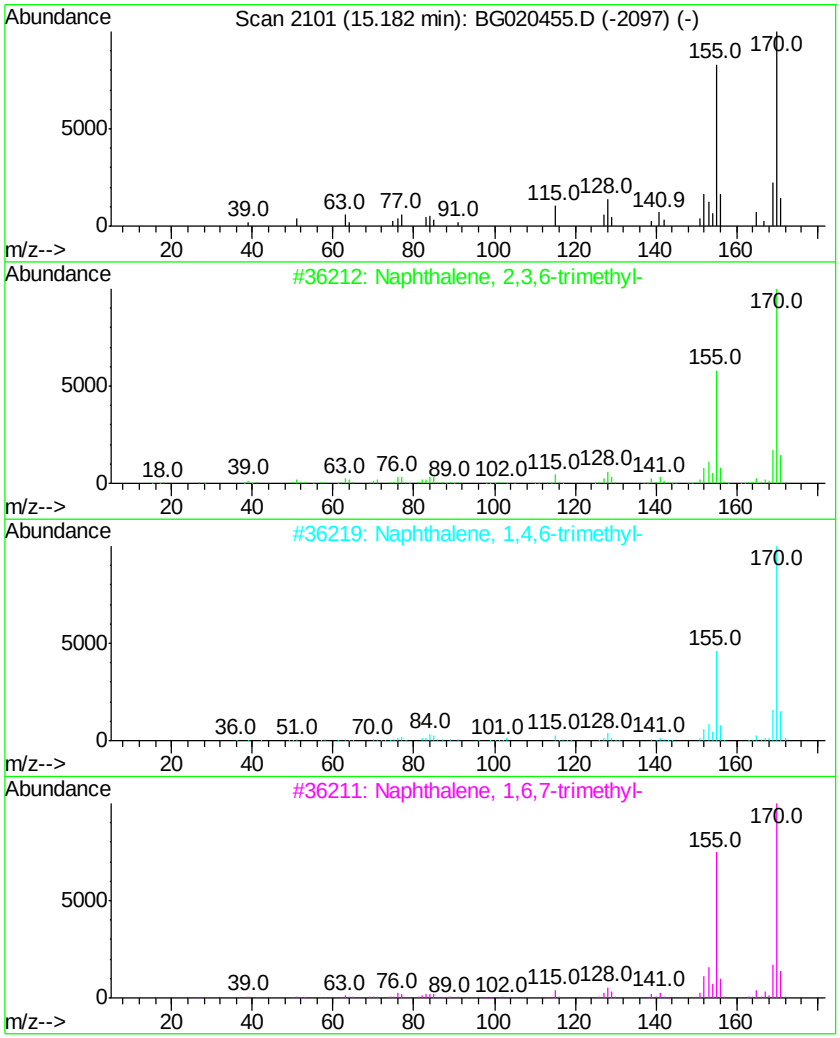
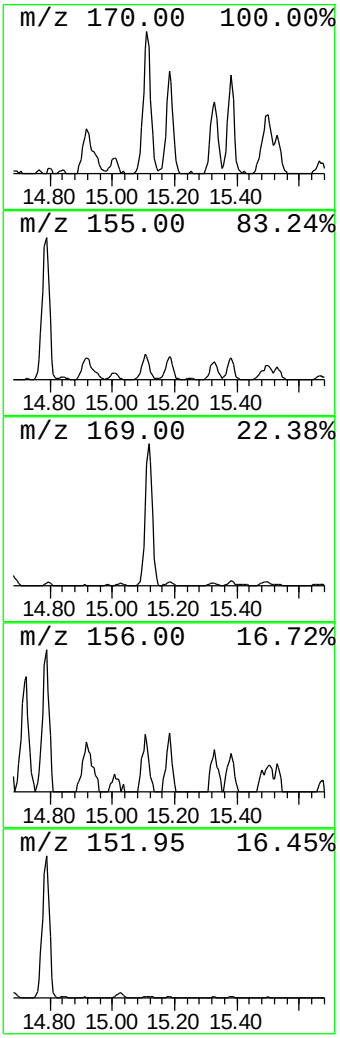
Peak Number 8 Naphthalene, 2,3,6-trimethyl- Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.18	3.50 ng/ul	47477	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	94
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	94
3	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	93
4	3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	90
5	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	87





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Sample : G4848-17DL 30X
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ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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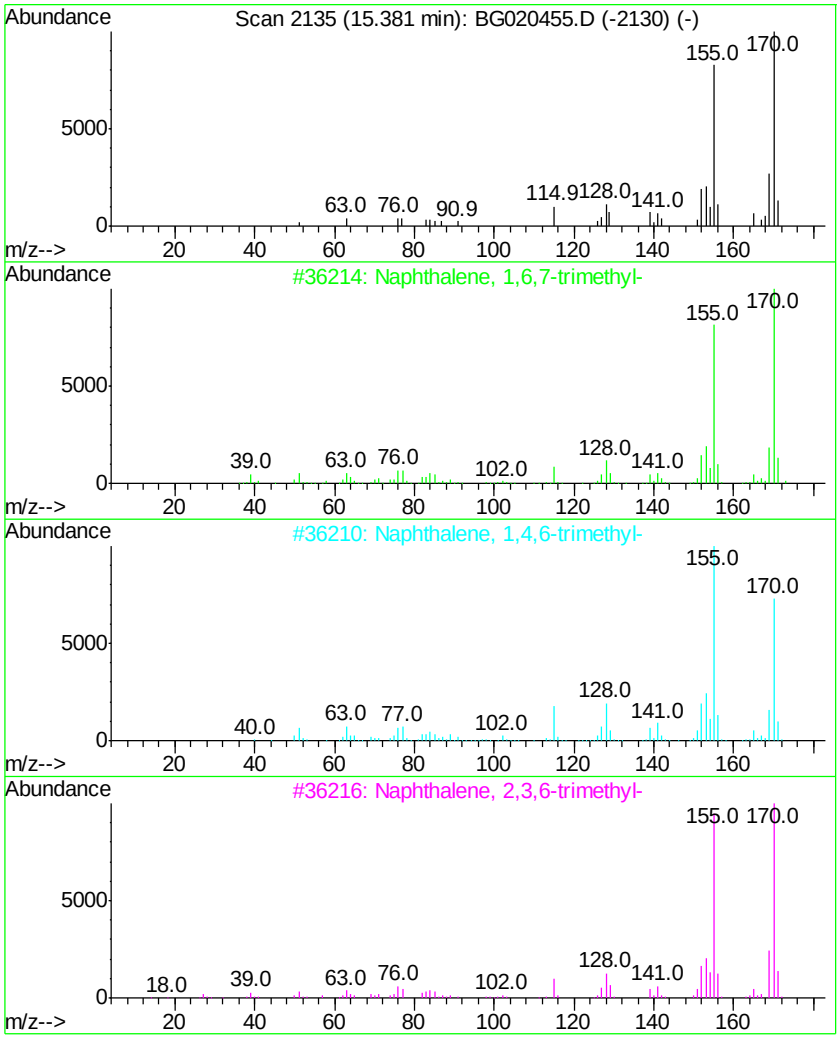
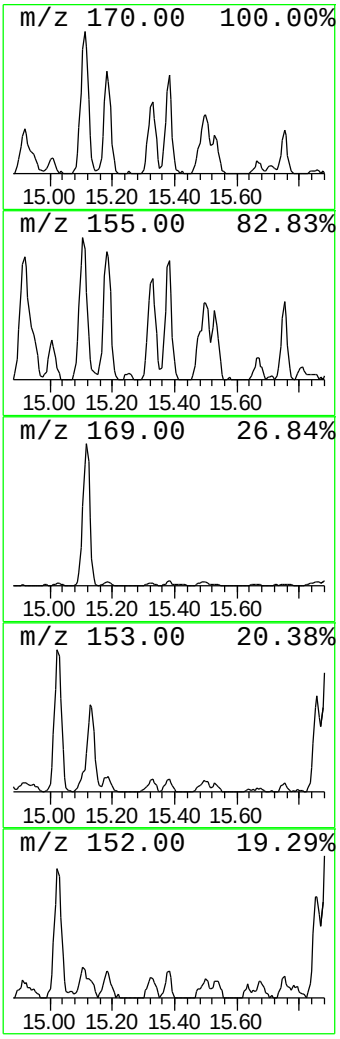
Peak Number 9 Naphthalene, 1,6,7-trimethyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.38	3.20 ng/ul	43344	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	95
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	93
5	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	93





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Misc :
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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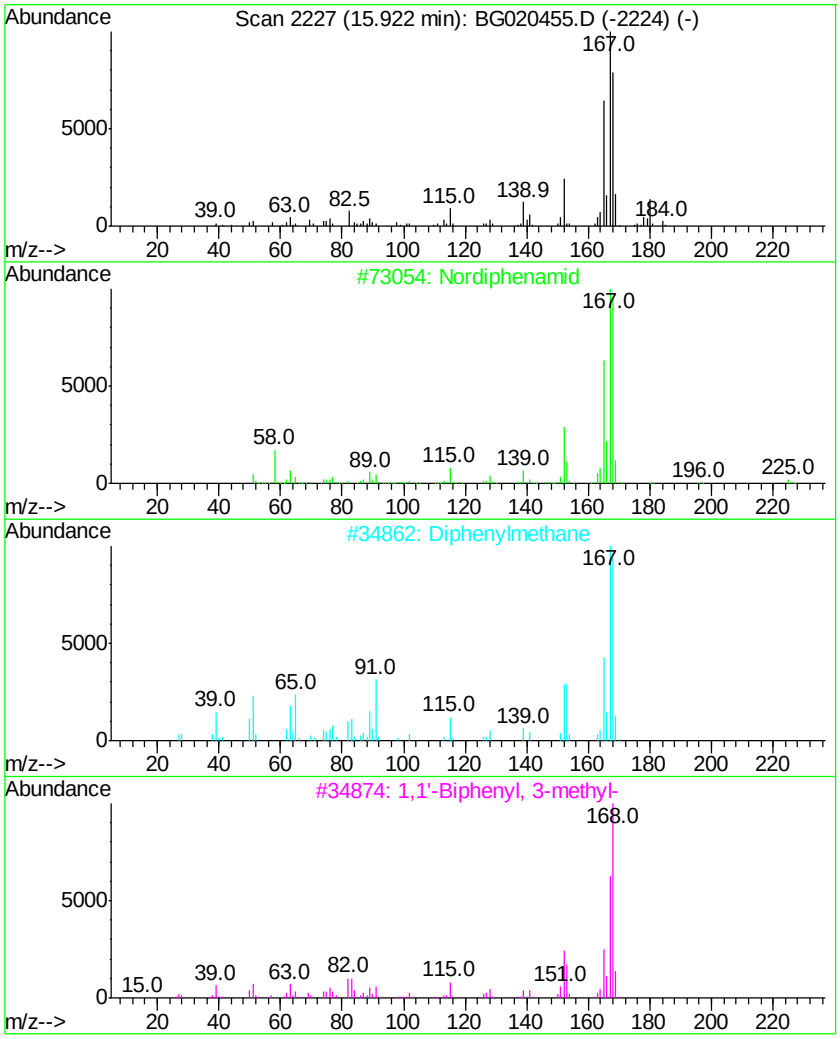
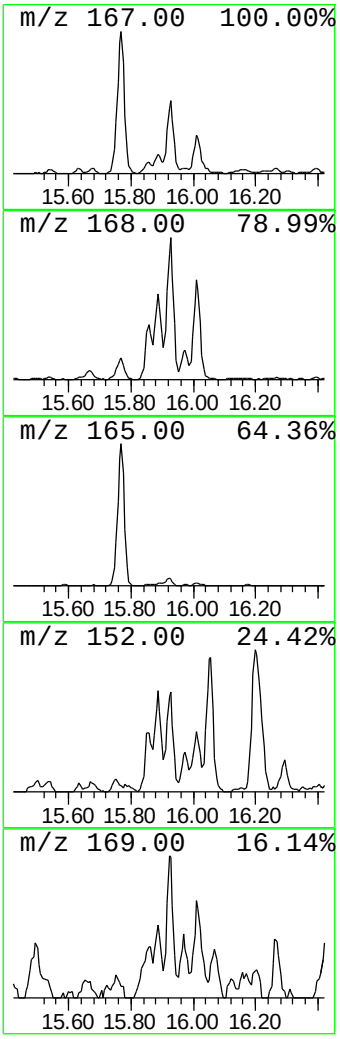
Peak Number 12 Nordiphenamid Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.92	16.76 ng/ul	227135	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nordiphenamid	225	C15H15NO	000954-21-2	87
2	Diphenylmethane	168	C13H12	000101-81-5	76
3	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	60
4	Fluorene, 1,4-dihydro-	168	C13H12	041593-21-9	55
5	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	49





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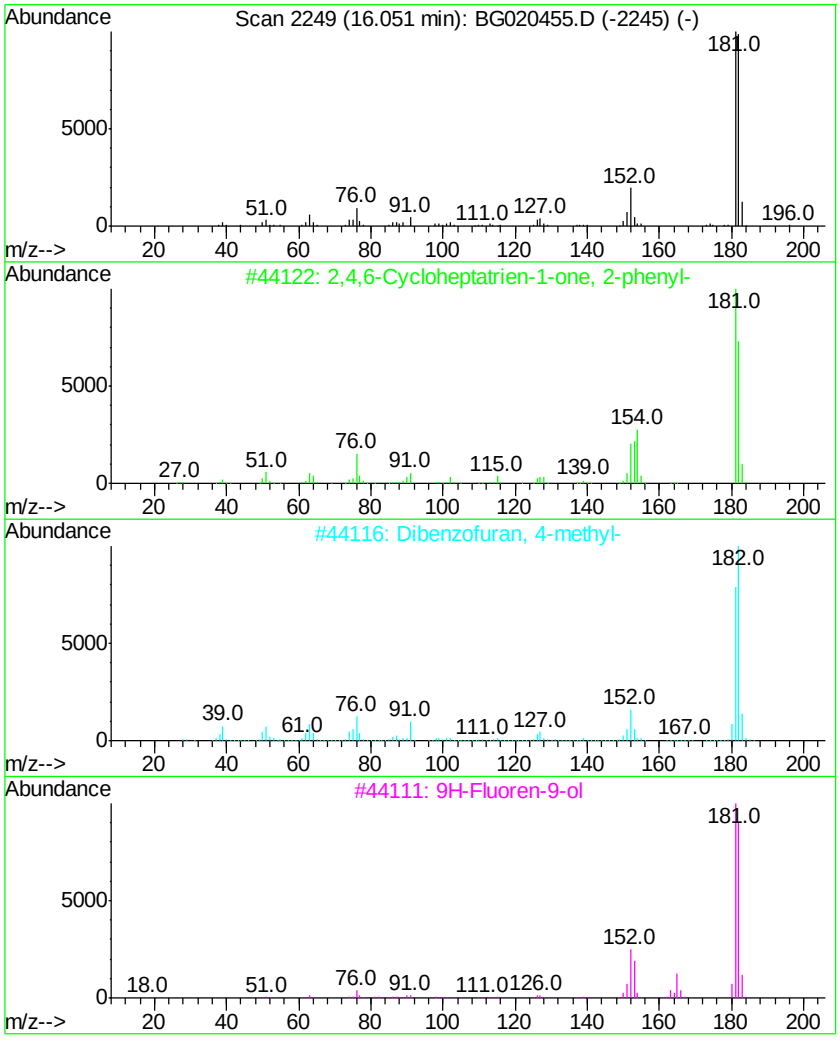
Quant Title : SVOA CALIBRATION

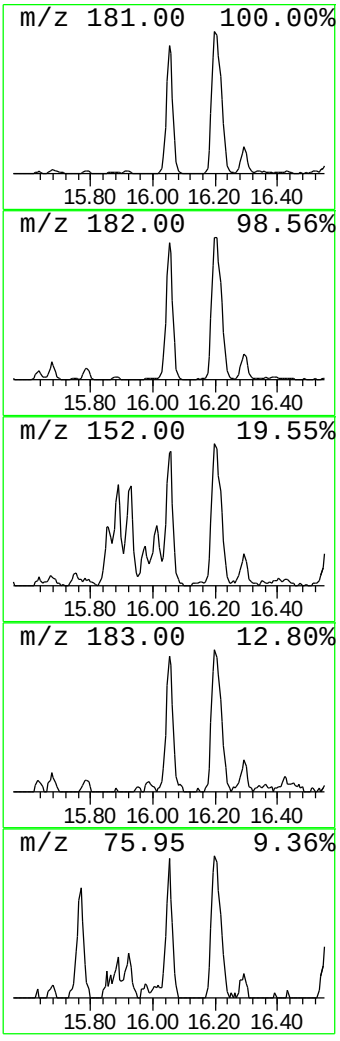
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 2,4,6-Cycloheptatrien-1-one... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.05	19.10 ng/ul	258841	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	81
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72
5	2-Hydroxyfluorene	182	C13H10O	002443-58-5	59





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Misc :
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Instrument : BNA_G
ClientSampleId : D9N63DL

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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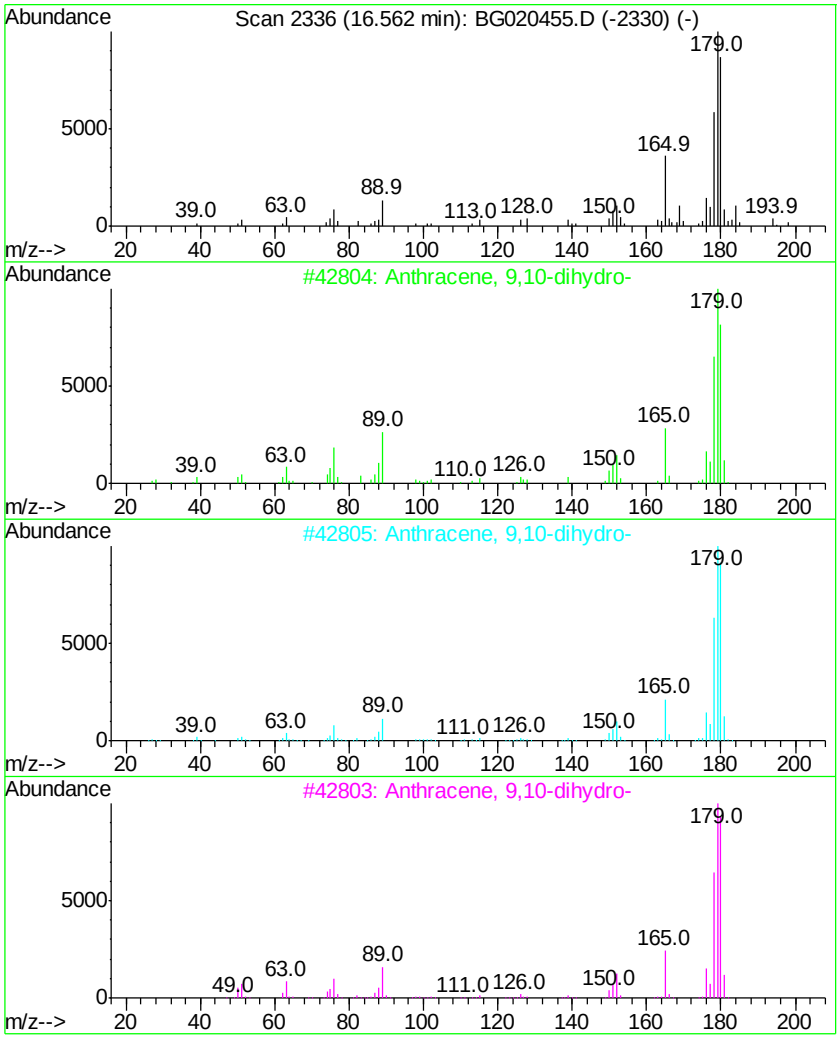
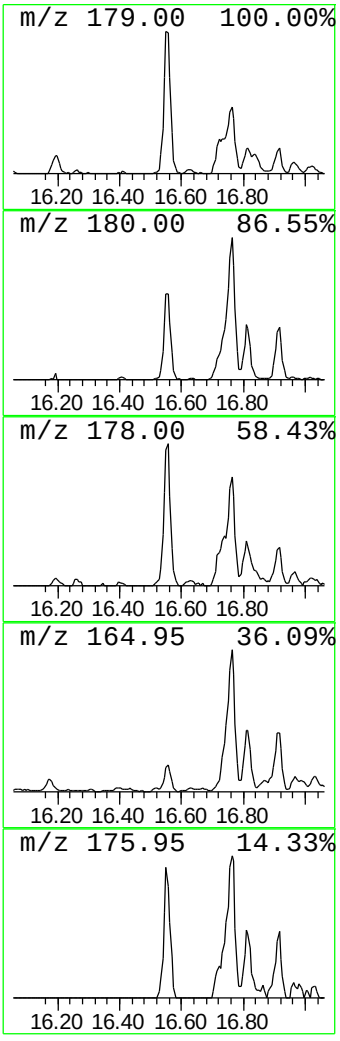
Peak Number 18 Anthracene, 9,10-dihydro- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.56	7.54 ng/ul	124245	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
2	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	95
3	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	94
4	(E)-Stilbene	180	C14H12	000103-30-0	83
5	Phenanthrene, 9,10-dihydro-	180	C14H12	000776-35-2	83





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Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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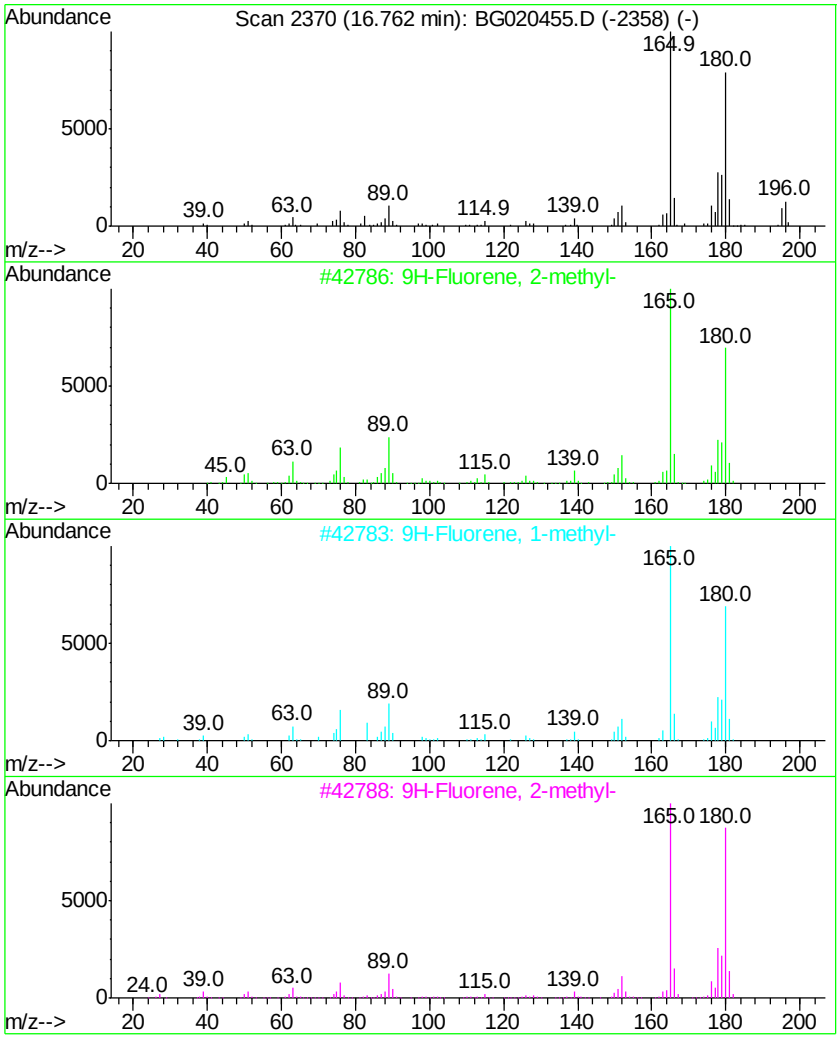
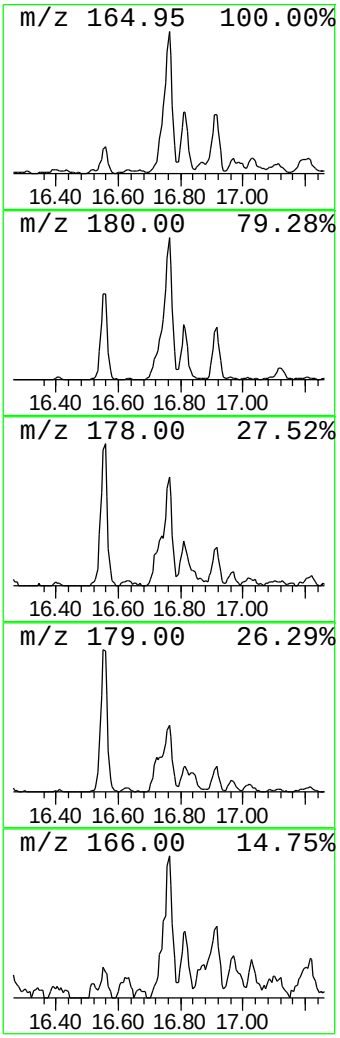
Peak Number 19 9H-Fluorene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.76	19.11 ng/ul	315061	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	90
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	89





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Instrument : BNA_G
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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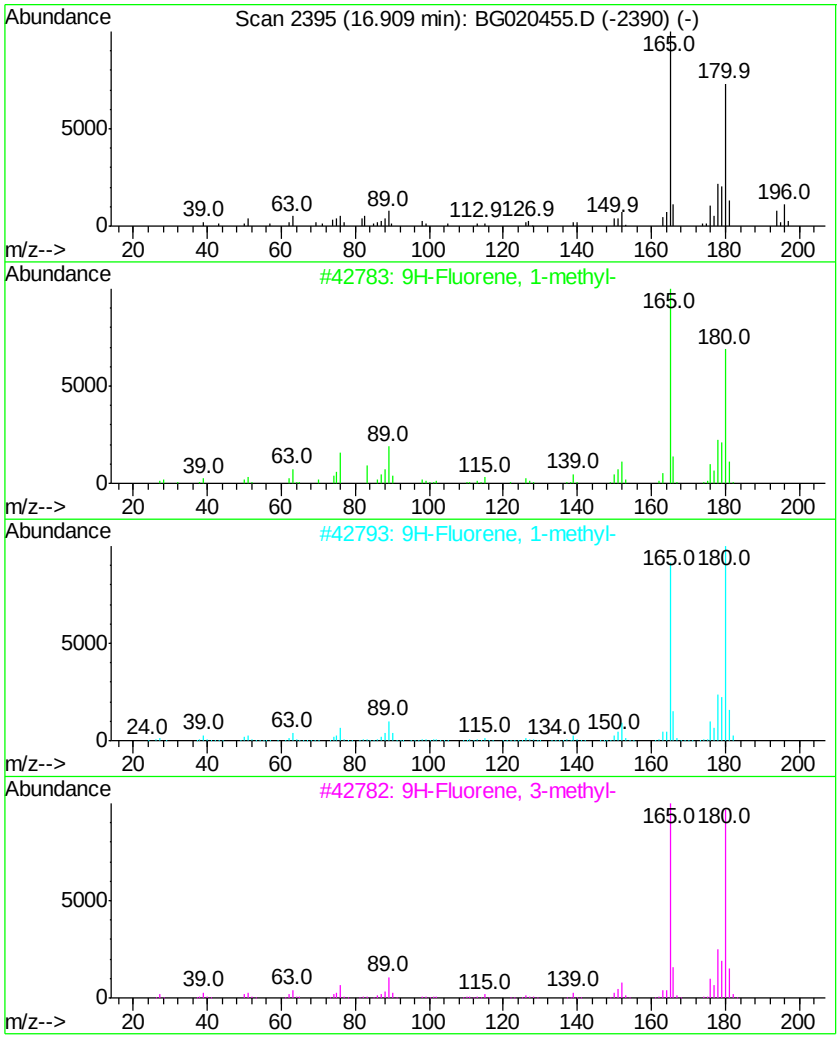
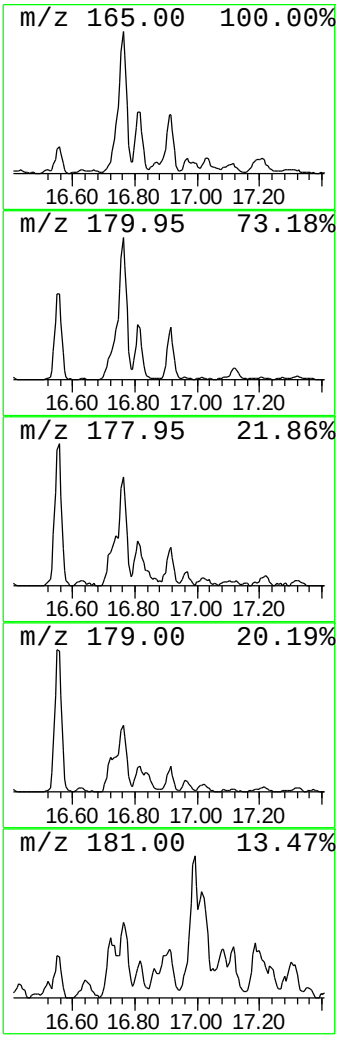
Peak Number 21 9H-Fluorene, 1-methyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.91	6.16 ng/ul	101543	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	91
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	90
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	90
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	83





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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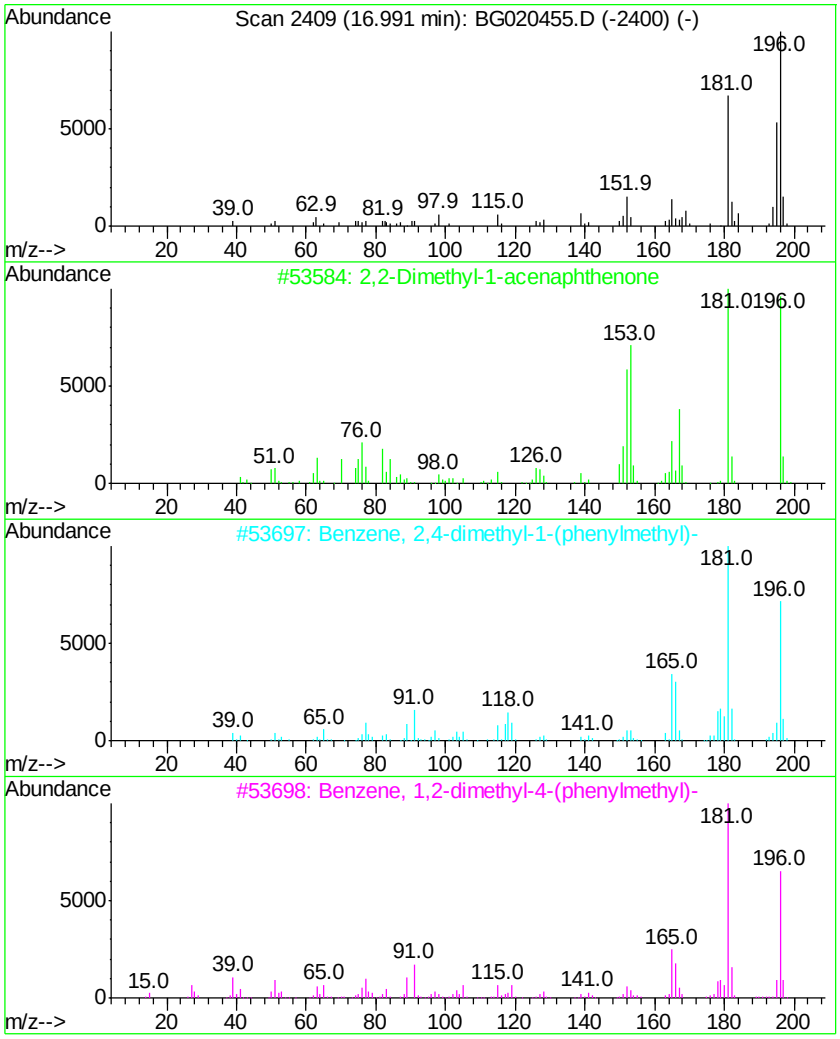
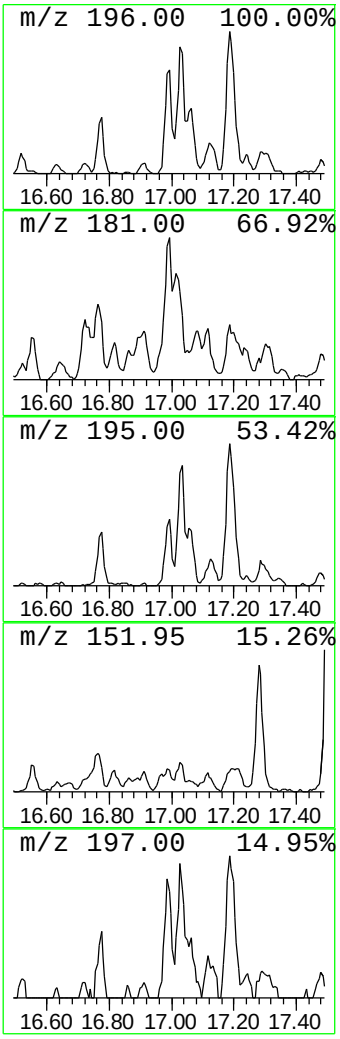
Peak Number 22 2,2-Dimethyl-1-acenaphthenone Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.99	7.65 ng/ul	126183	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethyl-1-acenaphthenone	196	C14H12O	018086-43-6	62
2	Benzene, 2,4-dimethyl-1-(phenylm...	196	C15H16	028122-28-3	53
3	Benzene, 1,2-dimethyl-4-(phenylm...	196	C15H16	013540-56-2	53
4	Benzene, 1-methyl-3-[(4-methylph...	196	C15H16	021895-16-9	53
5	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	50





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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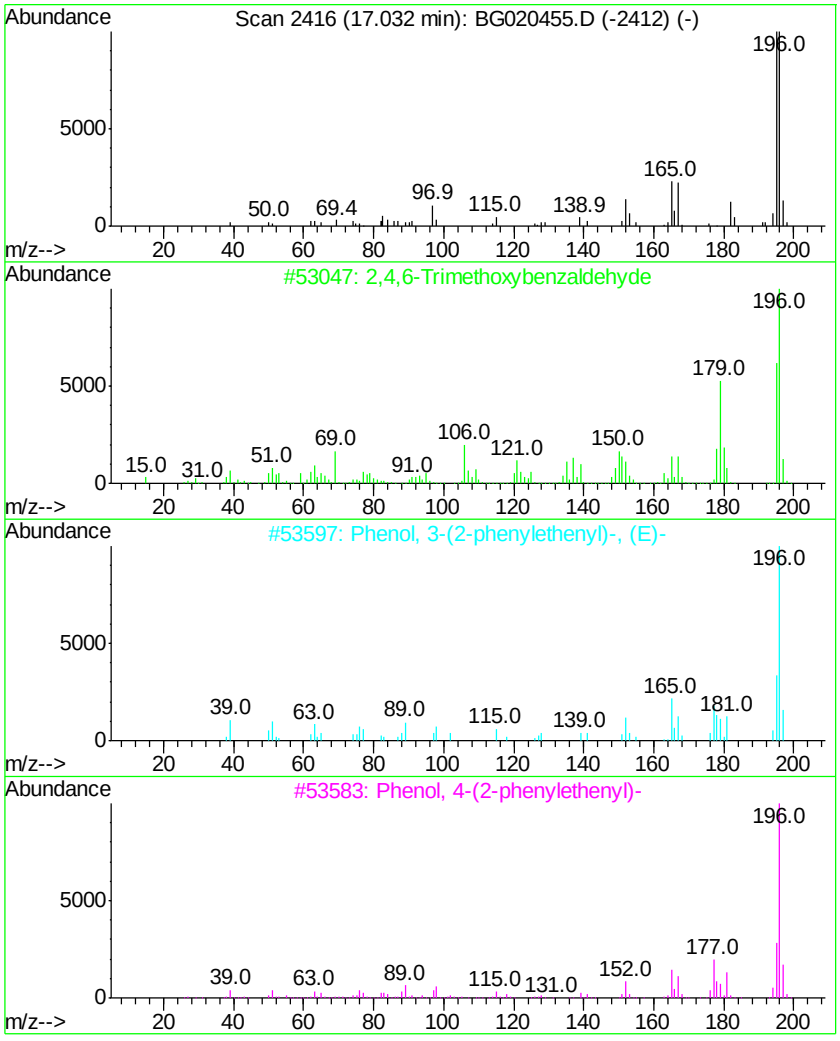
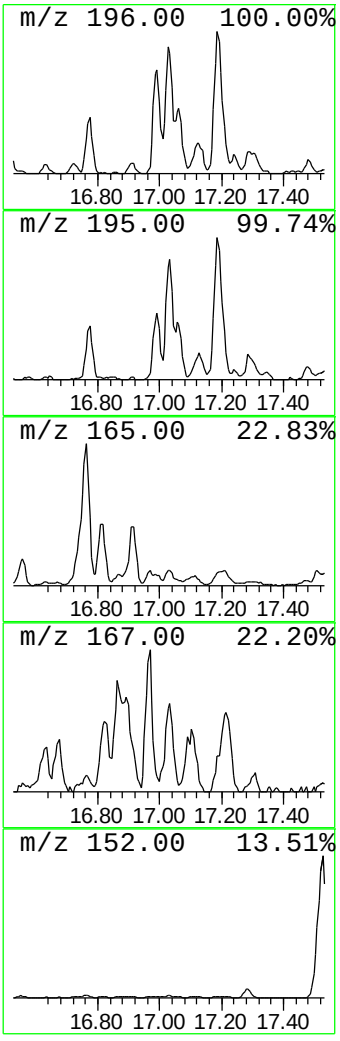
Peak Number 23 2,4,6-Trimethoxybenzaldehyde Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.03	3.59 ng/ul	59214	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Trimethoxybenzaldehyde	196	C10H12O4	000830-79-5	86
2	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	53
3	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	52
4	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	52
5	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	52





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ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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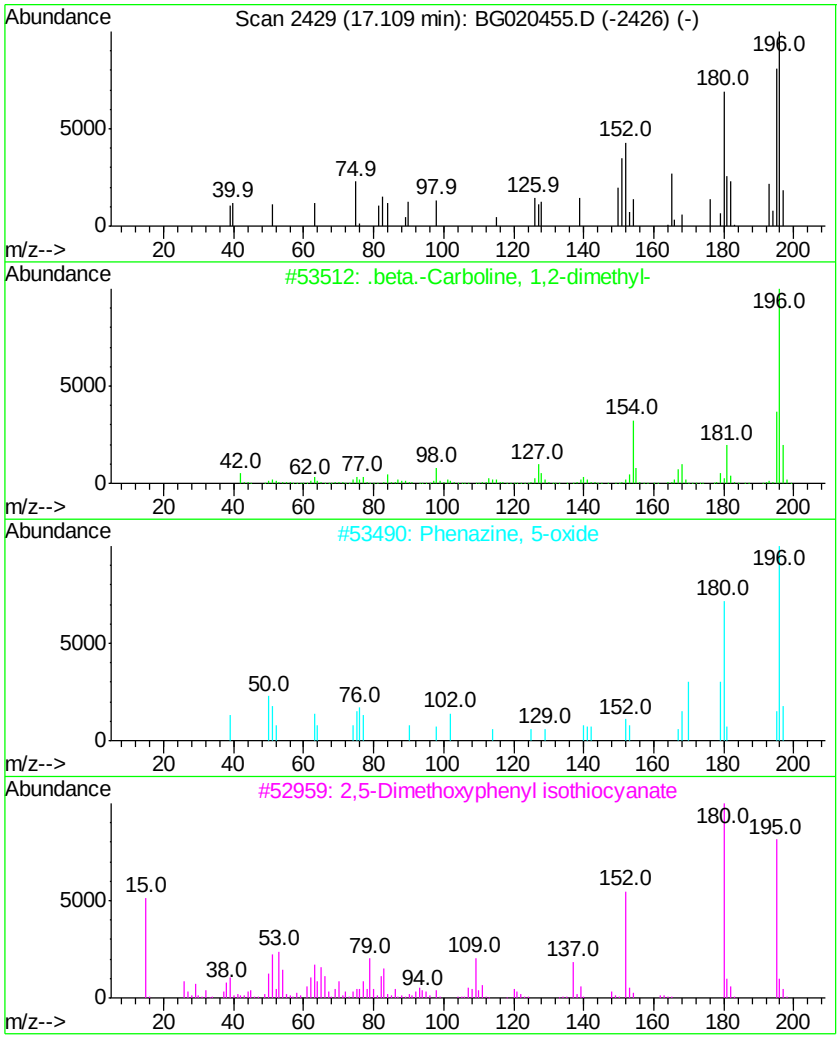
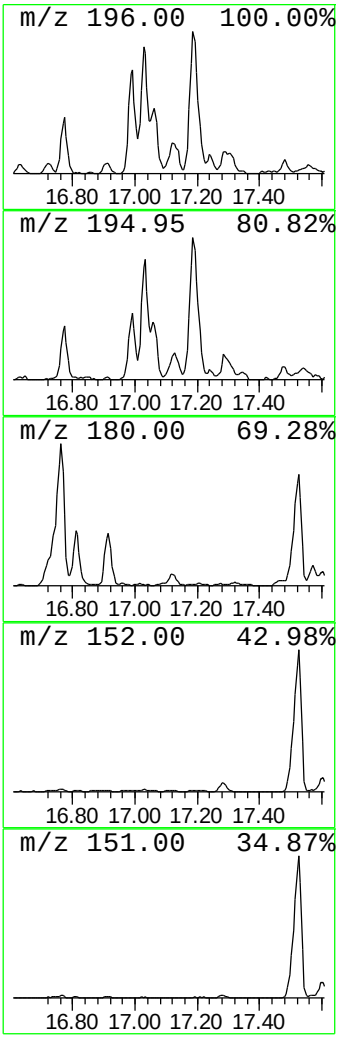
Peak Number 24 unknown-01 Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.11	2.91 ng/ul	48038	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Carboline, 1,2-dimethyl-	196	C13H12N2	109847-05-4	38
2	Phenazine, 5-oxide	196	C12H8N2O	000304-81-4	37
3	2,5-Dimethoxyphenyl isothiocyanate	195	C9H9NO2S	040532-06-7	35
4	Benzaldehyde, 2,3,4-trimethoxy-	196	C10H12O4	002103-57-3	35
5	9H-Fluorene, 2-methoxy-	196	C14H12O	002523-46-8	32





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Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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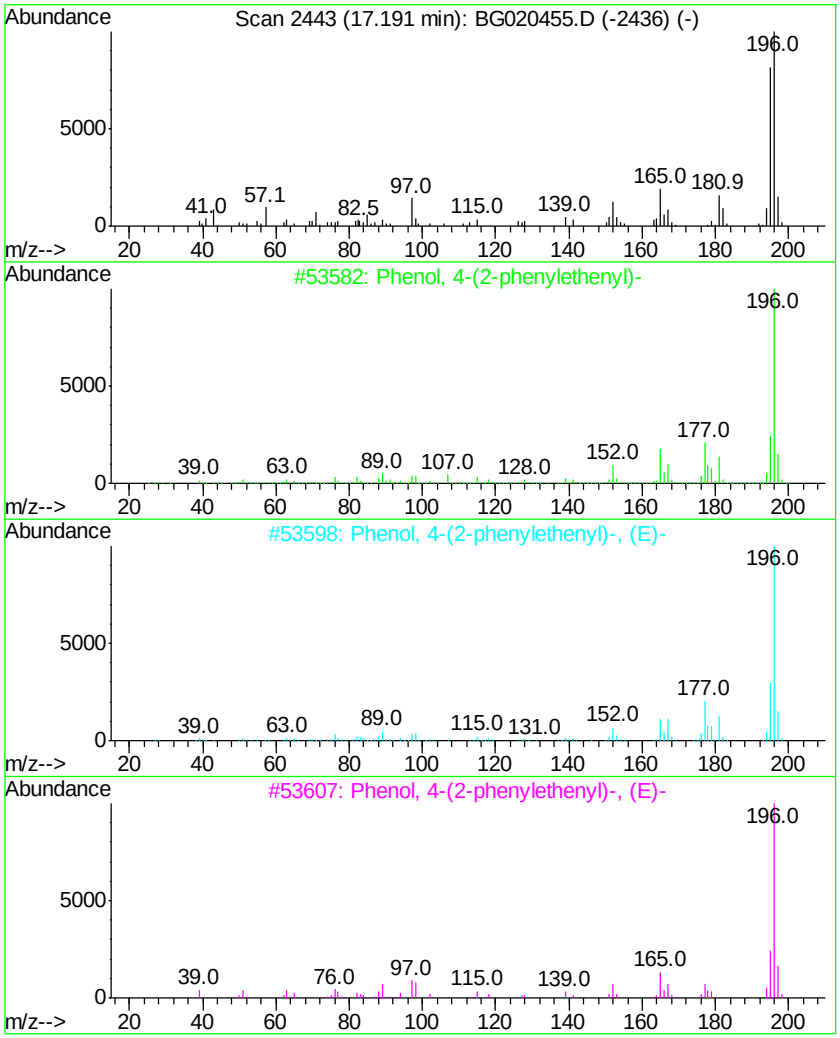
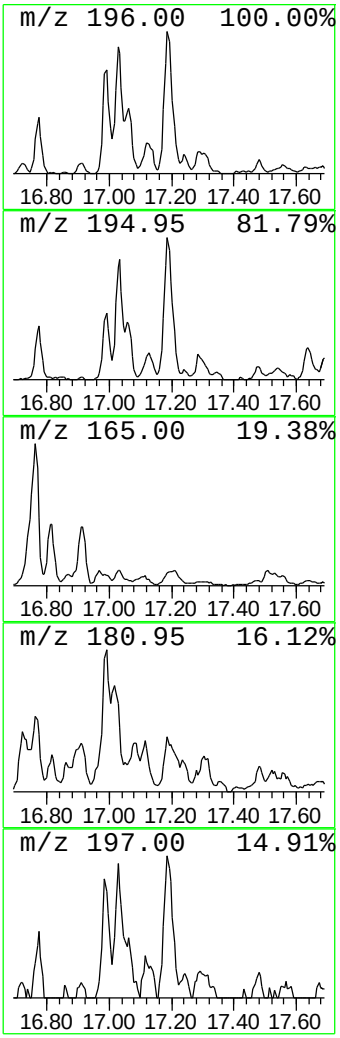
Peak Number 25 Phenol, 4-(2-phenylethenyl)- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.19	11.77 ng/ul	194014	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	70
2	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	58
3	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	58
4	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	50
5	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	49





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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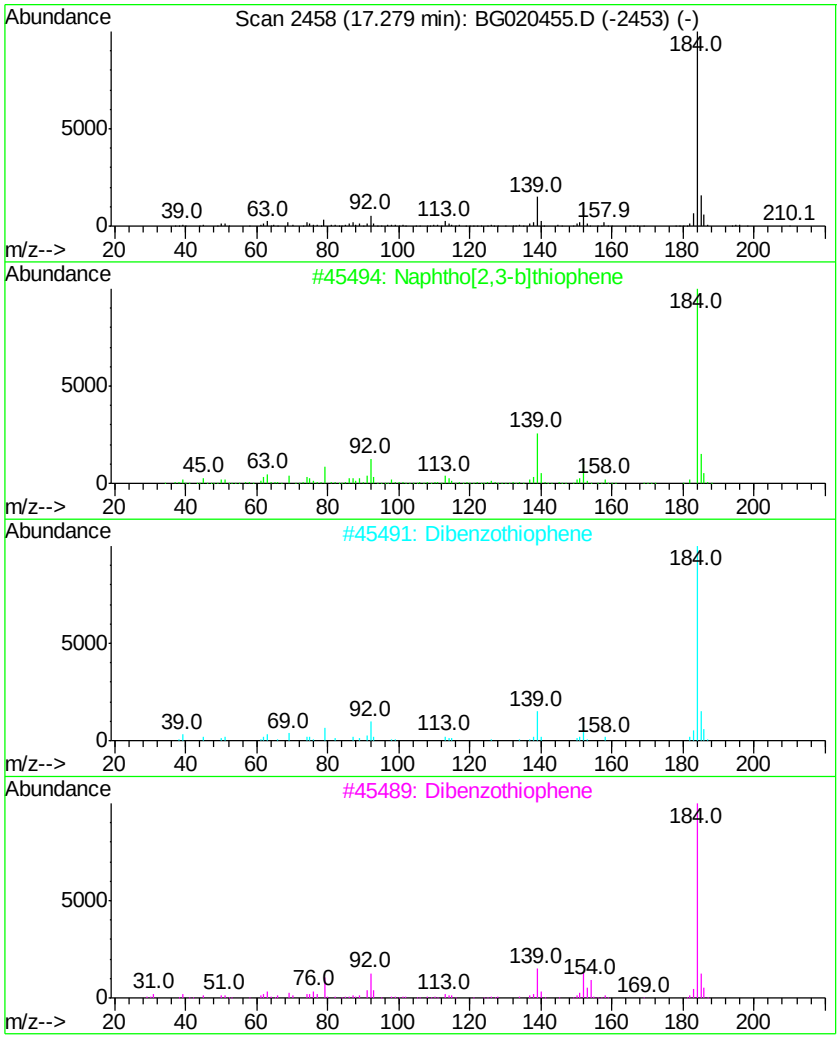
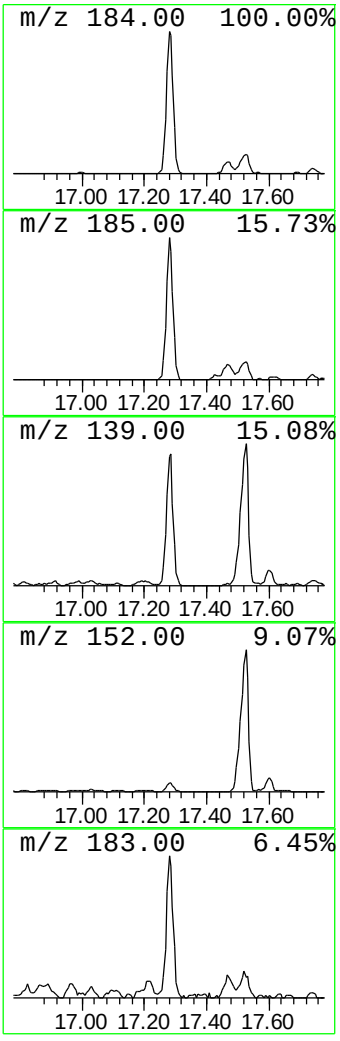
Peak Number 26 Naphtho[2,3-b]thiophene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.28	29.17 ng/ul	480805	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Dibenzothiophene	184	C12H8S	000132-65-0	94
4	Dibenzothiophene	184	C12H8S	000132-65-0	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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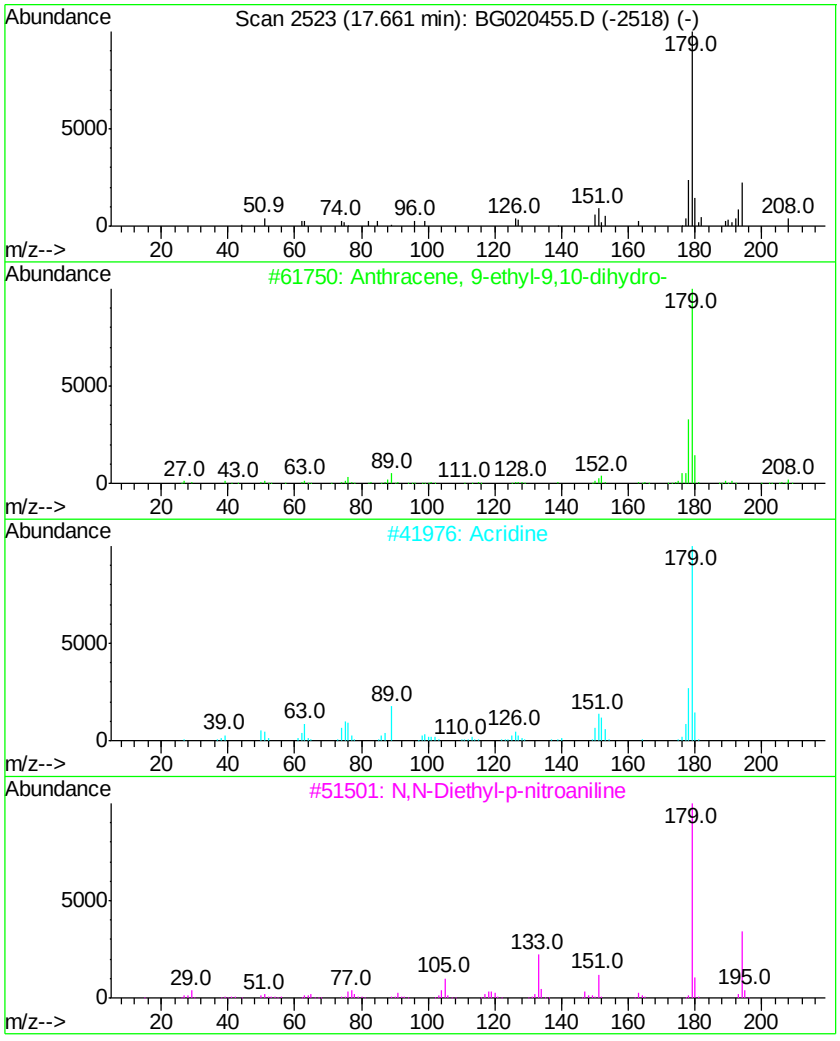
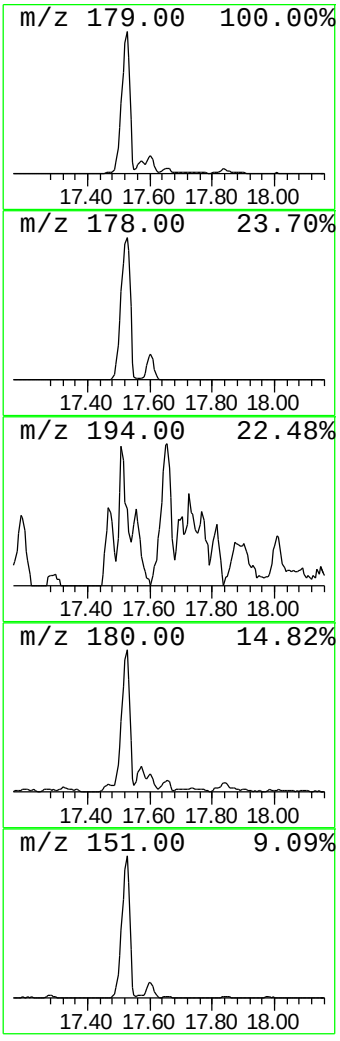
Peak Number 27 Anthracene, 9-ethyl-9,10-di... Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.66	3.33 ng/ul	54958	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-ethyl-9,10-dihydro-	208	C16H16	000605-82-3	68
2	Acridine	179	C13H9N	000260-94-6	64
3	N,N-Diethyl-p-nitroaniline	194	C10H14N2O2	002216-15-1	64
4	Pyridine, 2-(phenylethynyl)-	179	C13H9N	013141-42-9	64
5	Benzo[f]quinoline	179	C13H9N	000085-02-9	64





Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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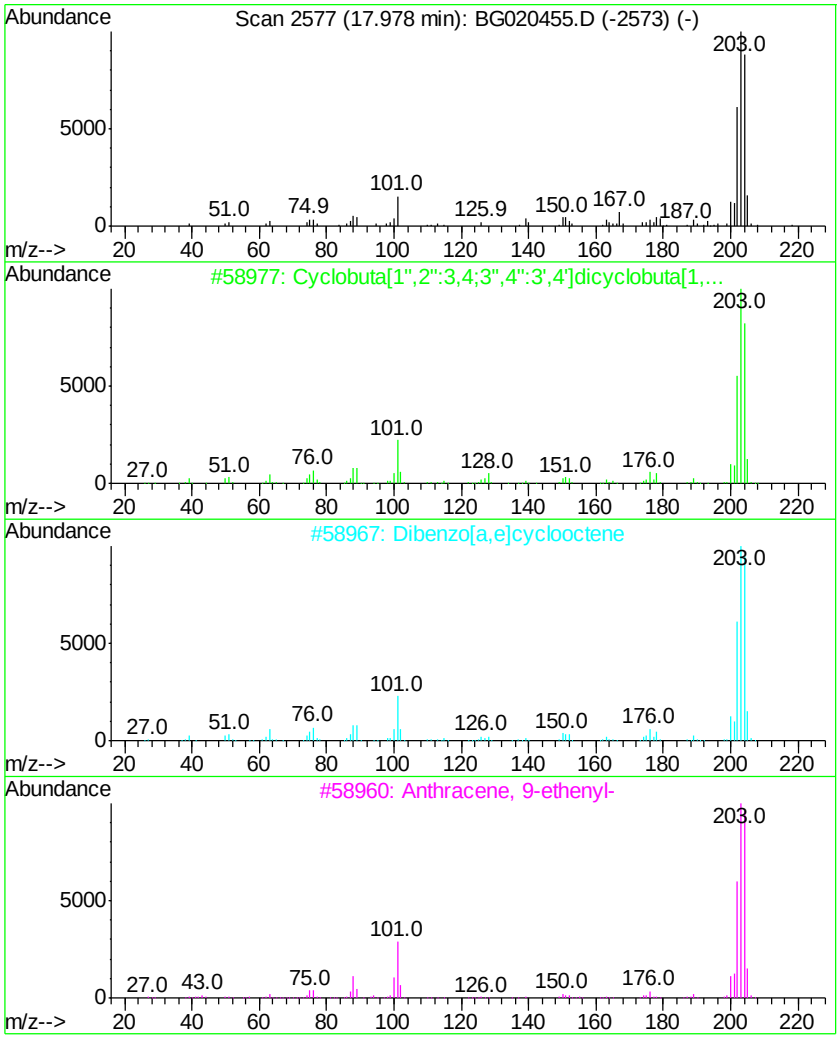
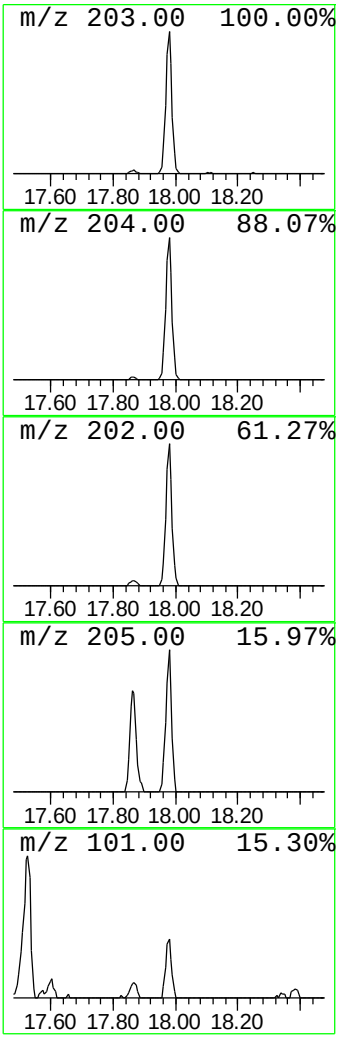
Peak Number 28 Cyclobuta[1'',2'':3,4;3'',4... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.98	7.36 ng/ul	121324	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobuta[1'',2'':3,4;3'',4'':3'...	204	C16H12	006574-36-3	89
2	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	89
3	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	76
4	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	76
5	1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	76





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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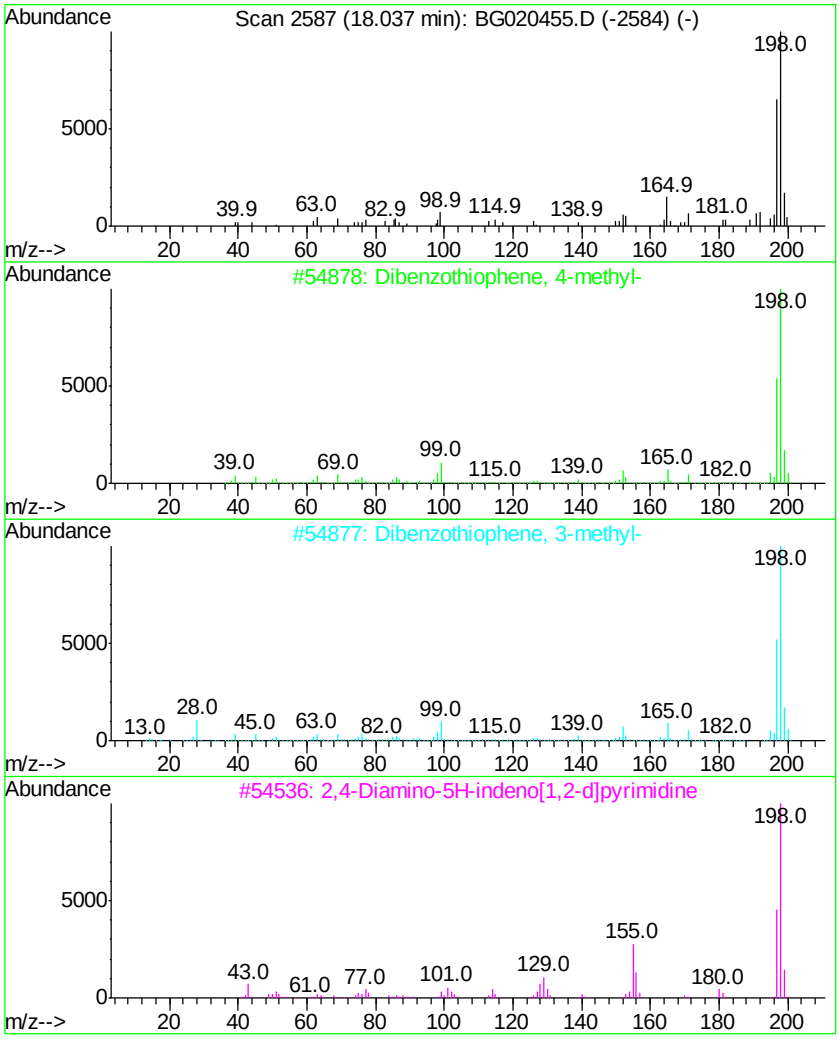
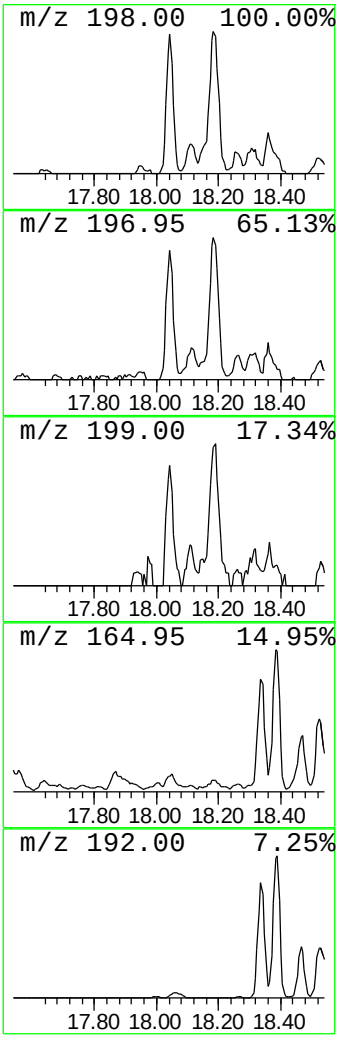
Peak Number 29 Dibenzothiophene, 4-methyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.04	4.19 ng/ul	69073	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	90
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	81
3	2,4-Diamino-5H-indeno[1,2-d]pyri...	198	C11H10N4	095140-64-0	53
4	2-Benzyl-[1,4]benzoquinone	198	C13H10O2	038940-10-2	49
5	Thioxanthene	198	C13H10S	000261-31-4	43





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
Data File : BG020455.D
Acq On : 23 Dec 2015 22:45
Operator : UM/SJ
Sample : G4848-17DL 30X
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N63DL

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, 1-me...	12.77	50.0	ng/ul	479520	2	10.90	191925	20.0
Naphthalene, 1-et...	13.75	10.6	ng/ul	143990	3	14.72	271084	20.0
Naphthalene, 2,7-...	14.04	18.8	ng/ul	255243	3	14.72	271084	20.0
Naphthalene, 2,3-...	14.27	7.3	ng/ul	99326	3	14.72	271084	20.0
2-Naphthalenecarb...	14.85	5.4	ng/ul	72924	3	14.72	271084	20.0
Naphthalene, 2-(1...	14.92	3.3	ng/ul	45199	3	14.72	271084	20.0
1-Isopropenylnaph...	15.02	6.2	ng/ul	84578	3	14.72	271084	20.0
Naphthalene, 2,3,...	15.18	3.5	ng/ul	47477	3	14.72	271084	20.0
Naphthalene, 1,6,...	15.38	3.2	ng/ul	43344	3	14.72	271084	20.0
Nordiphenamid	15.92	16.8	ng/ul	227135	3	14.72	271084	20.0
2,4,6-Cycloheptat...	16.05	19.1	ng/ul	258841	3	14.72	271084	20.0
Anthracene, 9,10-...	16.56	7.5	ng/ul	124245	4	17.47	329697	20.0
9H-Fluorene, 2-me...	16.76	19.1	ng/ul	315061	4	17.47	329697	20.0
9H-Fluorene, 1-me...	16.91	6.2	ng/ul	101543	4	17.47	329697	20.0
2,2-Dimethyl-1-ac...	16.99	7.7	ng/ul	126183	4	17.47	329697	20.0
2,4,6-Trimethoxyb...	17.03	3.6	ng/ul	59214	4	17.47	329697	20.0
unknown-01	17.11	2.9	ng/ul	48038	4	17.47	329697	20.0
Phenol, 4-(2-phen...	17.19	11.8	ng/ul	194014	4	17.47	329697	20.0
Naphtho[2,3-b]thi...	17.28	29.2	ng/ul	480805	4	17.47	329697	20.0
Anthracene, 9-eth...	17.66	3.3	ng/ul	54958	4	17.47	329697	20.0
Cyclobuta[1'',2''...	17.98	7.4	ng/ul	121324	4	17.47	329697	20.0
Dibenzothiophene,...	18.04	4.2	ng/ul	69073	4	17.47	329697	20.0